AMENDMENTS TO THE CLAIMS

Claims 1-8. (Canceled)

9. (Currently Amended) An apparatus for incorporating an impurity in a thin film on a substrate arranged in a deposition chamber comprising:

an impurity cell in the deposition chamber, the impurity cell having a predetermined amount of an impurity in a confined volume;

wherein, the impurity is removed from the impurity cell in a gas phase and is delivered carrier-gas free to the thin film, further wherein the impurity in the gas phase is incorporated into the thin film during thin film deposition.

- 10. (Original) The apparatus of claim 9, wherein the impurity is selected from the group consisting of carbon and germanium.
- 11. (Original) The apparatus of claim 9, wherein the thin film comprises epitaxial or polycrystalline silicon.
- 12. (Original) The apparatus of claim 11, wherein the impurity incorporated into the epitaxial or polycrystalline silicon thin film comprises carbon in a concentration from about 1E13 atoms/cm3 to a maximum solubility of carbon in the silicon thin film.
- 13. (Original) The apparatus of claim 9, wherein the impurity cell comprises a liquid, a solid, a liquid adhering to a solid or a gas adhering to a solid.
- 14. (Original) The apparatus of claim 9, wherein the impurity is desorbed from the impurity cell by providing a vacuum surrounding the impurity cell.

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- 15. (Original) The apparatus of claim 9, wherein the impurity is desorbed from the impurity cell by increasing the temperature of the impurity cell.
- 16. (Original) The apparatus of claim 9, wherein the deposition chamber comprises a vacuum chamber.

Claims 17-20. (Canceled)

- 21. (New) The apparatus of claim 9, wherein the confined volume is located entirely within the deposition chamber.
- 22. (New) An apparatus for incorporating an impurity in a thin film on a substrate arranged in a deposition chamber comprising:

an impurity cell in the deposition chamber which introduces a pre-determined amount of an impurity in the deposition chamber;

an impurity source coupled to the impurity cell;

means for introducing one or more gases into the deposition chamber for forming the thin film, wherein the impurity in the gas phase is incorporated into the thin film; and, means for isolating the deposition chamber from the impurity cell and the impurity source such that the impurity cell can be charged from the impurity source.

- 23. (New) The apparatus of claim 22, wherein the impurity cell remains in the deposition chamber during charging from the impurity source.
- 24. (New) The apparatus of claim 22, wherein the impurity cell comprises a liquid, a solid, a liquid adhering to a solid or a gas adhering to a solid.

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- 25. (New) The apparatus of claim 22, wherein the thin film comprises epitaxial or polycrystalline silicon.
- 26. (New) The apparatus of claim 25, wherein the impurity incorporated into the epitaxial or polycrystalline silicon thin film comprises carbon in a concentration from about 1E13 atoms/cm3 to a maximum solubility of carbon in the silicon thin film.
- 27. (New) The apparatus of claim 22, wherein the impurity is delivered carrier-gas free to the thin film.
- 28. (New) The apparatus of claim 22, wherein the impurity is located in a confined volume entirely within the deposition chamber.
- 29. (New) The apparatus of claim 22, wherein the impurity is desorbed from the impurity cell.
- 30. (New) The apparatus of claim 29, wherein the impurity is desorbed from the impurity cell by providing a vacuum surrounding the impurity cell.
- 31. (New) The apparatus of claim 29, wherein the impurity is desorbed from the impurity cell by increasing the temperature of the impurity cell.
- 32. (New) The apparatus of claim 22, wherein the deposition chamber comprises a vacuum chamber.